



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

## NOTICE OF ACCEPTANCE (NOA)

Whirlwind Steel Buildings, Inc.  
8234 Hansen Road  
Houston, TX 77075

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: Super Span X 24 Ga. (0.024" min.) Steel Roof Panels System

**APPROVAL DOCUMENT:** Drawing titled " Super Span X, 24 GA., Steel Roof Panel System ", prepared by CBuck Engineering, dated April 15, 2014, revision #1 dated January 21, 2016, signed and sealed by James L. Buckner, P.E., on February 03, 2016, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, Lithia Springs, GA and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 14-0506.08 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**

H.M.  
07/14/2016

NOA No. 16-0211.04  
Expiration Date:  
Approval Date:  
Page 1

**Whirlwind Steel Buildings, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 08-0310.10**

**A. DRAWINGS:**

1. *Drawing titled " Super Span X 24 GA. Roof Details ", prepared by Terrence E. Wolfe, P.E., dated November 28, 2007, last revision dated November 28, 2007, signed and sealed by Chander P. Nangia, P.E., on November 04, 2008.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, prepared by Farabaugh Engineering and Testing, Inc., Test Report No. T304-07, dated 10/28/2007, signed and sealed by Daniel G. Farabaugh, P.E.*
2. *Test report on: 1000 hours in salt spray per ASTM B117, prepared by Asphalt Technologies, Akzo Nobel Coatings, Inc. dated 10/08/2002, signed and sealed by Charles L. Thomas.*
3. *Test report on: 2000 hours Accelerated Weathering per ASTM G26, prepared by Asphalt Technologies, Akzo Nobel Coatings, Inc. dated 10/08/2002, signed and sealed by Charles L. Thomas.*
4. *Water Spray Leakage Test per FM 4471, Appendix G, prepared by Farabaugh Engineering and Testing, Inc., Test Report No. T305-07, dated 10/30/2007, signed and sealed by Daniel G. Farabaugh, P.E.*
5. *Structural Performance Test report per TAS 125-03 per ASTM E 1592-01, prepared by Force Engineering & Testing, Inc., Test Report # 14-0325T-07A, B, dated 10/27/07, signed and sealed by Terrence E. Wolfe, P.E.*
6. *Structural Performance Test report per TAS 125-03 per ASTM E 1592-01, prepared by Force Engineering & Testing, Inc., Test Report # 14-0325T-07C, dated 10/27/07, signed and sealed by Terrence E. Wolfe, P.E.*

**C. CALCULATIONS:**

1. *Calculations titled "Whirlwind steel Buildings Super Span X Panel", dated February 19, 2008, pages 1 through 5 of 5, prepared by Chander P. Nangia, P.E., signed and sealed by Chander P. Nangia, P.E., on February 19, 2008.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS:**

1. *Tensile Test Report No. T304-07, prepared by West Penn Material Evaluation, dated August 20, 2007, signed by T. Anlt.*

---

**Helmy A. Makar, P.E., M.S.**  
**Product Control Section Supervisor**  
**NOA No. 16-0211.04**  
**Expiration Date:**  
**Approval Date:**

**Whirlwind Steel Buildings, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #14-0506.08**

**A. DRAWINGS:**

1. *Drawing titled "Super Span X, 24 GA., Steel Roof Panel System", prepared by CBuck Engineering, dated 04/15/14, signed & sealed by James L. Buckner, P.E., on 4/29/14.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS:**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS:**

1. *None.*

**F. STATEMENTS**

1. *Florida Building Code, 2010 Edition, compliance letter prepared by CBuck Engineering, dated 04/28/2014, signed & sealed by James L. Buckner, P.E.*

**3. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS:**

1. *Drawing titled "Super Span X, 24 GA., Steel Roof Panel System", prepared by CBuck Engineering, dated 04/15/2014, revision #1 dated 01/21/2016, signed & sealed by James L. Buckner, P.E.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS:**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS:**

1. *None.*

**F. STATEMENTS**

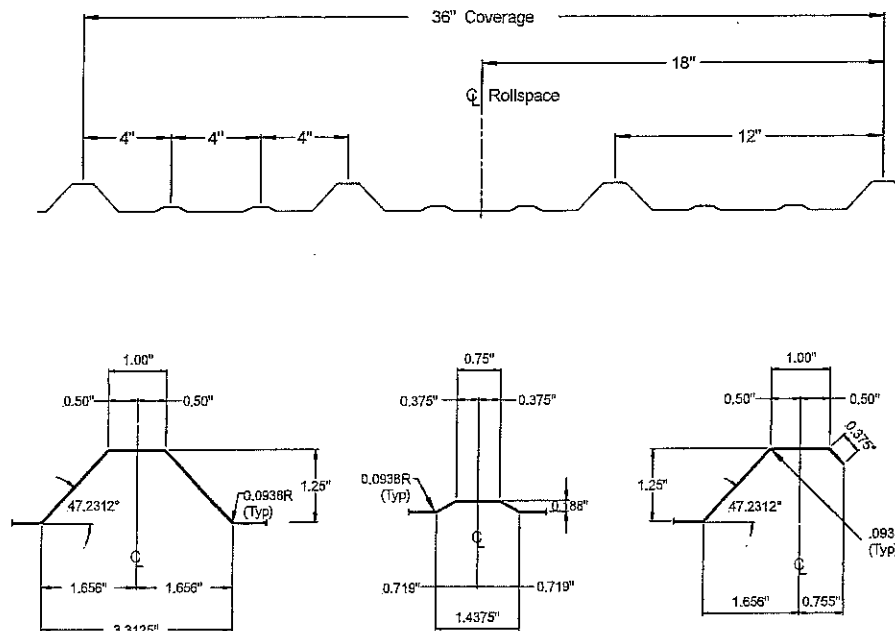
1. *Florida Building Code, 2014 Edition, compliance letter prepared by CBuck Engineering, dated 01/21/2016, signed & sealed by James L. Buckner, P.E.*

---

**Helmy A. Makar, P.E., M.S.**  
**Product Control Section Supervisor**  
**NOA No. 16-0211.04**  
**Expiration Date:**  
**Approval Date:**

**NOTES:**

1. This structural roof panel system has been designed in accordance with Florida Building Code 5<sup>th</sup> Edition (2014). The design pressures as determined from section 1620 and ASCE 7-10 shall be multiplied by 0.6.
2. The 24 Ga. Super Span X Roof Panels shall be used for roof construction only. The actual roof project shall be constructed using the same details shown on these drawings including:
  - A) Details, all panel material characteristics and section with dimension and thickness.
  - B) Erection details including all connection fasteners with size and location.
  - C) Panel maximum span and pressure for the field, perimeters and corners based on panel allowable values shown below.
3. The maximum allowable spans and uplift pressures for the Super Span X steel roof panel in the roof's field, perimeter, and corner zones shall be based on the following panel allowable values (use smallest span for the given pressure)
  - A) Maximum allowable bending moment of the panel at supports = 114.22 ft-lbs.
  - B) Maximum allowable bending moment of the panel between supports = 82.33 ft-lbs.
  - C) EI value of panel = 1,160,547.0 lbs-in<sup>2</sup>
  - D) Maximum allowable deflection for roof panels = L/240.
  - E) Maximum panel interior support reaction = 198.00 lbs.
  - F) Maximum panel exterior support reaction = 83.83 lbs.
4. All panel sub-members shall be minimum 16 gauge (0.056"). They are not part of this approval and they shall be reviewed structurally by the structural plans examiner of the corresponding building department for each job.
5. Maximum allowable panel span = 5'-0".

**PANEL PROPERTIES**

Panel Gauge	Painted Panel Thickness	Yield Strength*	Tensile Strength*	Elongation*	Steel Coating*	Paint Coating*
24	0.024"	50 KSI	65 KSI	26.5	AZ 55	Kynar 500
* Conform to ASTM A792 Structural Quality Grade 50						

**MEMBER SCREW FOR PANEL SUPPORTS**

#12-14 x 1-1/4" Zinc Hex Head "HTZ" #2 Pt. with 0.58" O.D. Seal Integral Washer, By Buildex.

**STITCH SCREW FOR PANEL SIDE LAPS**

1/4"-14 x 7/8" Zinc Hex Head "HTZ" with 0.58" O.D. Seal Integral Washer, By Buildex.



Super Span X Inside (CS29R)  
Closures by Guardian



Super Span X Outside (CS28R)  
Closures by Guardian



1" x 3/32" Butyl Tape



7/8" x 3/16" Butyl Tape



2-1/2" x 3/16" Tri-Bead Butyl Tape



SM5522 Acryl-R Acrylic Sealant

JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242

2/3/16

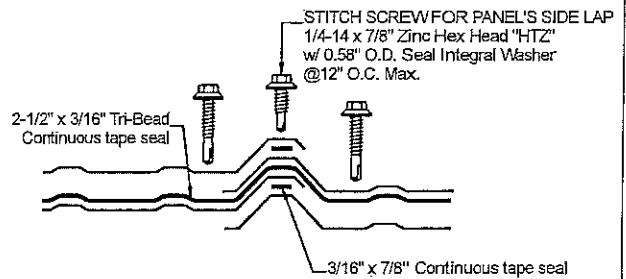
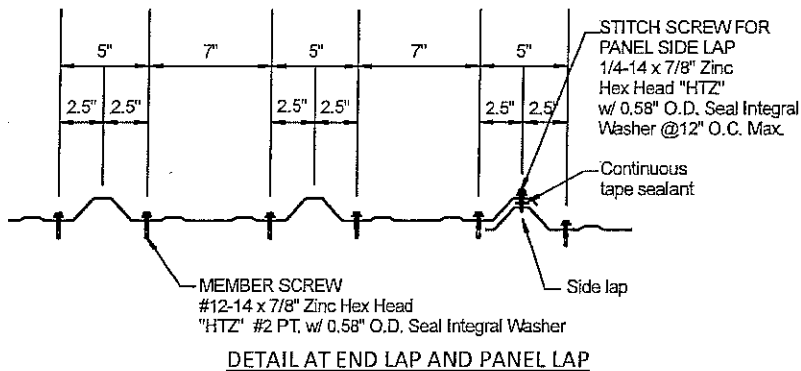
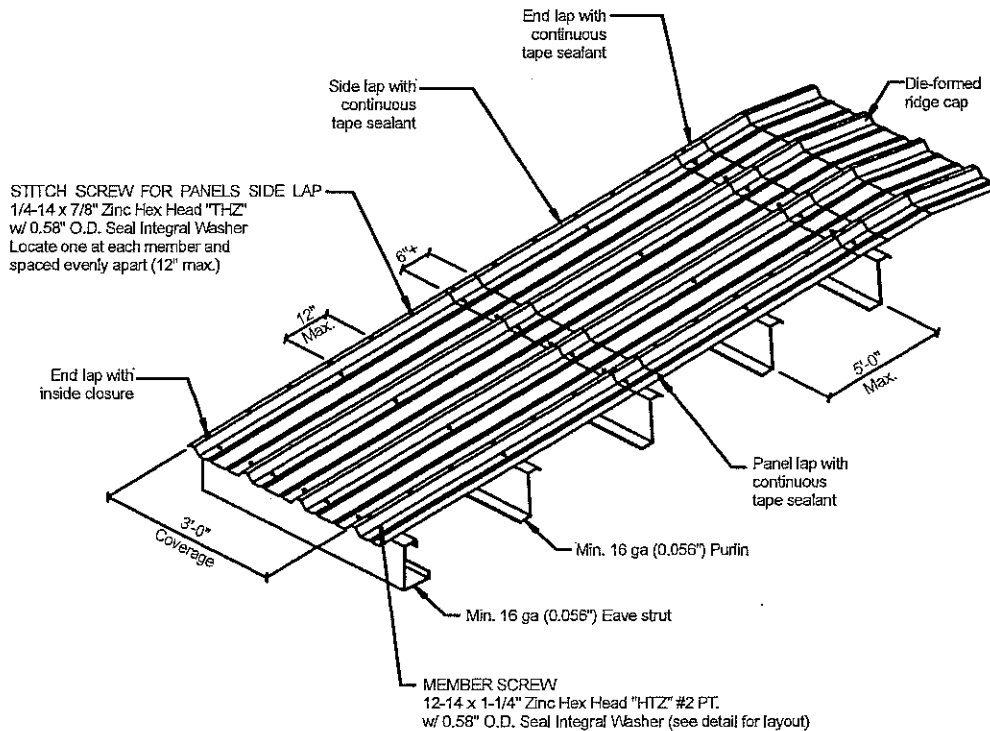
**TITLE: "Super Span X, 24 Ga., Steel Roof Panel System"**

**CBUCK Engineering**  
Structural Engineering  
CBUCK, Inc. COA #8064  
www.cbuckinc.net  
(561) 491-9927  
2637 E. Atlantic Blvd, # 34026  
Pompano Beach, FL 33062



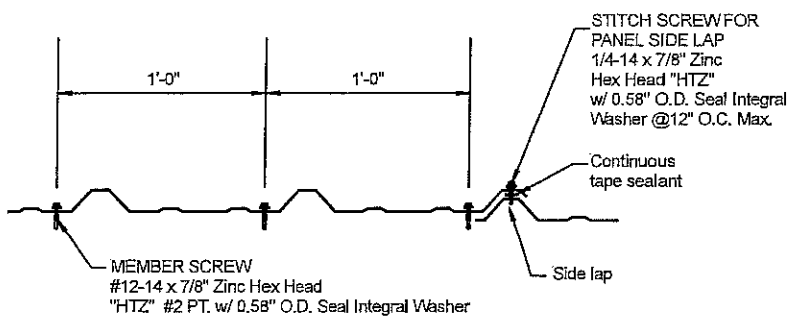
**Whirlwind Steel Buildings, Inc.**  
8234 Hansen Road  
Houston, TX 77075

DATE: 4 / 15 / 14  
PAGE #: 1 OF 3  
PROJECT #: 14-117\_R  
DRAWN BY: yd  
REV. 1: 1 / 21 / 16  
SCALE: N.T.S.



#### NOTES:

1. All end laps must be a minimum of 6".
2. Metal shavings must be swept from the roof each day during erection to prevent surface rusting.
3. Tape sealant must be applied with no breaks or gaps.
4. Member screws are used to attach the panel to the structurals. Stitch screws are used at the panel to panel attachments. These fasteners may be self-drilling or self-tapping.



*James L. Buckner*  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
2/3/16

TITLE: "Super Span X, 24 Ga., Steel Roof Panel System"

CBUCK Engineering  
Structural Engineering  
CBUCK, Inc. COA #8064  
www.cbuckinc.net  
(561) 491-9927  
2637 E. Atlantic Blvd, # 34026  
Pompano Beach, FL 33062

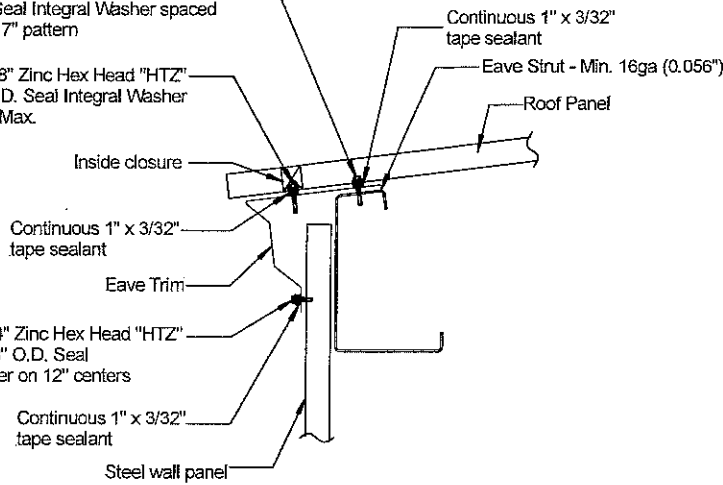


Whirlwind Steel Buildings, Inc.  
8234 Hansen Road  
Houston, TX 77075

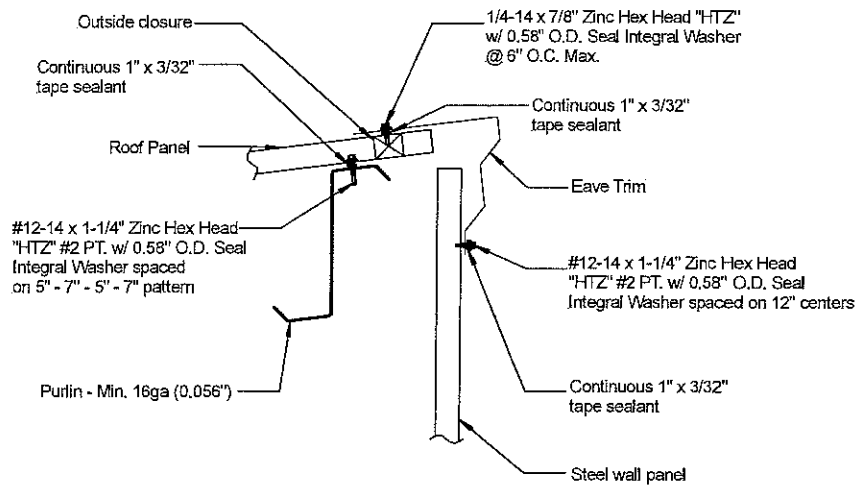
DATE: 4 / 15 / 14  
PAGE #: 2 OF 3  
PROJECT #: 14-117\_R  
DRAWN BY: yd  
REV. 1: 1 / 21 / 16  
SCALE: N.T.S.

#12-14 x 1-1/4" Zinc Hex Head "HTZ" #2 PT.  
w/ 0.58" O.D. Seal Integral Washer spaced  
on 5" - 7" - 5" - 7" pattern

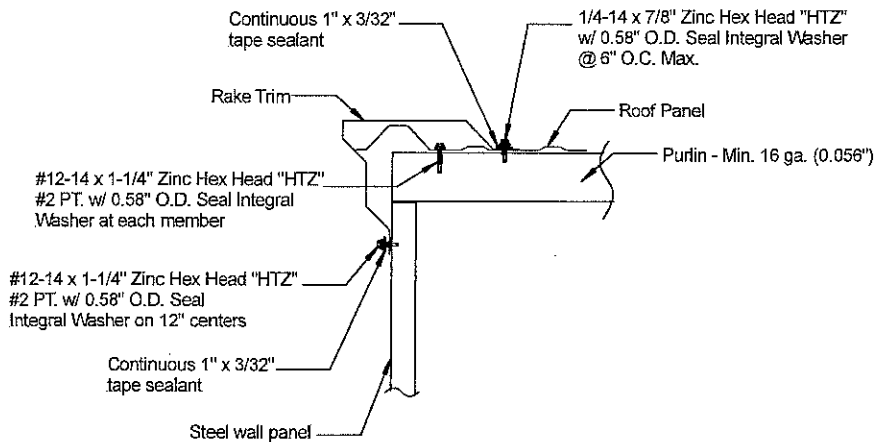
1/4-14 x 7/8" Zinc Hex Head "HTZ"  
w/ 0.58" O.D. Seal Integral Washer  
@ 6" O.C. Max.



EAVE DETAIL



HIGH EAVE DETAIL



RAKE DETAIL

*James L. Buckner*  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
2/3/16

TITLE: "Super Span X, 24 Ga., Steel Roof Panel System"

**CBUCK Engineering**  
Specialty Structural Engineering  
CBUCK, Inc. COA #8064  
www.cbuckinc.net  
(561) 491-9927  
2637 E. Atlantic Blvd, # 34026  
Pompano Beach, FL 33062



**Whirlwind Steel Buildings, Inc.**  
8234 Hansen Road  
Houston, TX 77075

DATE:	4 / 15 / 14
PAGE #:	3 OF 3
PROJECT #:	14-117_R
DRAWN BY:	yd
Rev. 1:	1 / 21 / 16
SCALE:	N.T.S.